Helson







RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09

Source:

Date Processed by STIC:

29/424.09/A

4/29/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.1 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (httm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- 3. Hand Carry directly to:
 - U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
 - U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09/424,09/A
attn: new rules cases	: Please disregard english "alpha" headers, which were inserted by Pto S
1Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s)contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0	A "bug" in Patentin version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, Patentin would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220><223> section is required when <213> response is Unknown or is Artificial Sequence
11 <u>V</u> Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001





1600

RAW SEQUENCE LISTING DATE: 04/29/2002 PATENT APPLICATION: US/09/424,091A TIME: 09:49:57

Input Set: A:\#318788 v1 - 350013-66 Sequence Listing(ASCII).txt

Output Set: N:\CRF3\04292002\I424091A.raw

```
アル/6
Does Not Comply
      2 <110> APPLICANT: Richard Andrew Kay
      3 <120> TITLE OF INVENTION: Immunological method
                                                                      Corrected Diskette Needed

★ <130> FILE REFERENCE: DUNW/P19095US

      5 <140> CURRENT APPLICATION NUMBER: 09/424091A
     6 <141> CURRENT FILING DATE: 1999-11-09
7 <150> PRIOR APPLICATION NUMBER: GB 9710820.3
W--> 8 <151> PRIOR FILING DATE: 27 May 1997 1997-05-27 Cuse this date format
W--> 9 <160> NUMBER OF SEQ ID: 47
     10 <170> SOFTWARE: SegWin99
W--> 11 <210> SEQ ID NO: 1
     12 <211> LENGTH: 20
                                     Sequence)

Sel ten II on Euro Summan Sheet-mandatory
response
reeded
     13 <212> TYPE: DNA
     14 <213> ORGANISM Artificial Sequence
W--> 15 <220> FEATURE:
     16 (223) OTHER INFORMATION:
W--> 17 <400> SEQUENCE: 1
     18 catcagaagc agagatctcc
     19 <210> SEQ ID NO: 2
     20 <211> LENGTH: 20
     21 <212> TYPE: DNA
     22 <213> ORGANISM: Artificial Sequence
W--> 23 <220> FEATURE:
     24(<223> OTHER INFORMATION:
W--> 25 (400) SEQUENCE: 2
     26 gatgtcaagc tggtcgagaa
                                                                                20
     27 <210> SEQ ID NO: 3
     28 <211> LENGTH: 18
     29 <212> TYPE: DNA
     30 <213> ORGANISM: Artificial Sequence
    31 <220> FEATURE:
     32 <223> OTHER INFORMATION: 5' PCR Primer
    33 <400> SEQUENCE: 3
     34 ctgaggtgca actactca
                                                                                18
     35 <210> SEQ ID NO: 4
     36 <211> LENGTH: 24
     37 <212> TYPE: DNA
     38 <213> ORGANISM: Artificial Sequence
   > 39 <220> FEATURE:
     40 <223> OTHER INFORMATION: 5' PCR Primer
   > 41 <400> SEQUENCE: 4
     42 gtgttcccag agggagccat tgcc
                                                                                24
     43 <210> SEQ ID NO: 5
     44 <211> LENGTH: 21
```

RAW SEQUENCE LISTINGPATENT APPLICATION: **US/09/424,091A**TIME: 04/29/2002

TIME: 09:49:57

Input Set : A:\#318788 v1 - 350013-66 Sequence Listing(ASCII).txt

Output Set: N:\CRF3\04292002\I424091A.raw

45 <212> TYPE: DNA 46 <213> ORGANISM: Artificial Sequence **∮> 47 <220> FEATURE:** 48 <223> OTHER INFORMATION: 5' PCR Primer 49 <400> SEQUENCE: 5 50 ggtgaacagt caacagggag a 21 51 <210> SEQ ID NO: 6 52 <211> LENGTH: 21 53 <212> TYPE: DNA 54 <213> ORGANISM: Artificial Sequence 55 <220> FEATURE: 56 <223> OTHER INFORMATION: 5' PCR Primer 57 <400> SEQUENCE: 6 58 acaagcatta ctgtactcct a 21 59 <210> SEQ ID NO: 7 60 <211> LENGTH: 18 61 <212> TYPE: DNA 62 <213> ORGANISM: Artificial Sequence ->/63 <220> FEATURE: 64 <223> OTHER INFORMATION: 5' PCR Primer 65 <400> SEQUENCE: 7 18 66 ggccctgaac attcagga 67 <210> SEQ ID NO: 8 68 <211> LENGTH: 20 69 <212> TYPE: DNA 70 <213> ORGANISM: Artificial Sequence **/**1 <220> FEATURE: 72 <223> OTHER INFORMATION: 5' PCR Primer 73 <400> SEQUENCE: 8 20 74 gtcactttct agcctgctga 75 <210> SEO ID NO: 9 76 <211> LENGTH: 21 77 <212> TYPE: DNA 78 <213> ORGANISM: Artificial Sequence /79 <220> FEATURE: 80 <223> OTHER INFORMATION: 5' PCR Primer -> 81 <400> SEQUENCE: 9 82 aggagccatt gtccagataa a 21 83 <210> SEQ ID NO: 10 84 <211> LENGTH: 22 85,<212> TYPE: DNA 86 <213> ORGANISM: Artificial Sequence 9/7 <220> FEATURE: 88 <223> OTHER INFORMATION: 5' PCR Primer 89 <400> SEQUENCE: 10 90 ggagagaatg tggagcagca tc 22 91 <210> SEQ ID NO: 11 92 <211> LENGTH: 21 93 <212> TYPE: DNA

RAW SEQUENCE LISTING DATE: 04/29/2002 PATENT APPLICATION: US/09/424,091A TIME: 09:49:57

Input Set : A:\#318788 v1 - 350013-66 Sequence Listing(ASCII).txt

Output Set: N:\CRF3\04292002\I424091A.raw

94 <213> ORGANISM: Artificial Sequence 95 <220> FEATURE: 96 <223> OTHER INFORMATION: 5' PCR Primer 97 <400> SEQUENCE: 11 98 atctcagtgc ttgtgataat a 21 99 <210> SEQ ID NO: 12 100 <211> LENGTH: 24 101 <212> TYPE: DNA 102 <213> ORGANISM: Artificial Sequence 103 <220> FEATURE: 104 <223> OTHER INFORMATION: 5' PCR Primer 105 <400> SEQUENCE: 12 106 acccagctgg tggagcagag ccct 24 107 <210> SEQ ID NO: 13 108 <211> LENGTH: 21 109 <212> TYPE: DNA 110 <213> ORGANISM: Artificial Sequence 1/11 <220> FEATURE: 112 <223> OTHER INFORMATION: 5' PCR Primer > 113 <400> SEQUENCE: 13 114 agaaagcaag gaccaagtgt t 21 115 <210> SEQ ID NO: 14 116 <211> LENGTH: 24 117 <212> TYPE: DNA 118 <213> ORGANISM: Artificial Sequence 119 <220> FEATURE: 120 <223> OTHER INFORMATION: 5' PCR Primer > 121 <400> SEQUENCE: 14 24 122 cagaaggtaa ctcaagcgca gact 123 <210> SEQ ID NO: 15 124 <211> LENGTH: 19 125 <212> TYPE: DNA 126 <213> ORGANISM: Artificial Sequence > £27 <220> FEATURE: 128 <223> OTHER INFORMATION: 5' PCR Primer 129 <400> SEQUENCE: 15 130 gcttatgaga acactgcgt 19 131 <210> SEQ ID NO: 16 132 <211> LENGTH: 20 133 <212> TYPE: DNA 134 <213> ORGANISM: Artificial Sequence /135 <220> FEATURE: 136 <223> OTHER INFORMATION: 5' PCR Primer 137 <400> SEQUENCE: 16 20 138 gcagcttccc ttccagcaat 139 <210> SEQ ID NO: 17 140 <211> LENGTH: 20 141 <212> TYPE: DNA 142 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING DATE: 04/29/2002 PATENT APPLICATION: US/09/424,091A TIME: 09:49:57

Input Set: A:\#318788 v1 - 350013-66 Sequence Listing(ASCII).txt

Output Set: N:\CRF3\04292002\I424091A.raw

```
143 <220> FEATURE:
   144 <223> OTHER INFORMATION: 5' PCR Primer
   145 <400> SEQUENCE: 17
                                                                              20
   146 agaacctgac tgcccaggaa
   147 <210> SEQ ID NO: 18
   148 <211> LENGTH: 21
   149 <212> TYPE: DNA
   150 <213> ORGANISM: Artificial Sequence
   151 <220> FEATURE:
   152 <223> OTHER INFORMATION: 5' PCR Primer
 -> 153 <400> SEQUENCE: 18
                                                                              21
   154 catctccatq gactcatatq a
   155 <210> SEO ID NO: 19
   156 <211> LENGTH: 19
   157 <212> TYPE: DNA
   158 <213> ORGANISM: Artificial Sequence
   159 <220> FEATURE:
   160 <223> OTHER INFORMATION: 5' PCR Primer
   161 <400> SEQUENCE: 19
                                                                              19
   162 gactatacta acagcatgt
   163 <210> SEQ ID NO: 20
   164 <211> LENGTH: 18
   165 <212> TYPE: DNA
   1,66 <213> ORGANISM: Artificial Sequence
   167 <220> FEATURE:
   168 <223> OTHER INFORMATION: 5' PCR Primer
   169 <400> SEQUENCE: 20
                                                                              18
   170 tgtcaggcaa tgacaagg
   171 <210> SEQ ID NO: 21
   172 <211> LENGTH: 26
   173 <212> TYPE: DNA
   174 <213> ORGANISM: Artificial Sequence
  /175 <220> FEATURE:
   176 <223> OTHER INFORMATION: Antisense 3' PCR primer
 > 177 <400> SEQUENCE: 21
                                                                              26
   178 aataggtcga gacacttgtc actgga
   179 <210> SEQ ID NO: 22
   180 <211> LENGTH: 29
   181 <212> TYPE: DNA
   182 <213> ORGANISM: Artificial Sequence
 >/183 <220> FEATURE:
   184 <223> OTHER INFORMATION: Antisense mid PCR primer
 > 185 <400> SEQUENCE: 22
                                                                              29
   186 cttgtcactg gatttagatc tctcagctg
   187 <210> SEQ ID NO: 23
   188 <211> LENGTH: 30
   189 <212> TYPE: DNA
   190 <213> ORGANISM: Artificial Sequence
   191 <220> FEATURE:
```

RAW SEQUENCE LISTING DATE: 04/29/2002 PATENT APPLICATION: US/09/424,091A TIME: 09:49:57

Input Set : A:\#318788 v1 - 350013-66 Sequence Listing(ASCII).txt

Output Set: N:\CRF3\04292002\1424091A.raw

```
192 <223> OTHER INFORMATION: Antisense 5' PCR primer
  193 <400> SEQUENCE: 23
  194 gtacacggca gggtcagggt tctggatatt
                                                                             30
  195 <210> SEQ ID NO: 24
  196 <211> LENGTH: 30
  197 <212> TYPE: DNA
  198 <213> ORGANISM: Artificial Sequence
  199 <220> FEATURE:
  200 <223> OTHER INFORMATION: 5' PCR Primer
  201 <400> SEQUENCE: 24
  202 aagagagac aaaaggaaac attcttgaac
                                                                             30
  203 <210> SEQ ID NO: 25
  204 <211> LENGTH: 30
  205 <212> TYPE: DNA
   206 <213> ORGANISM: Artificial Sequence
  207 <220> FEATURE:
  208 <223> OTHER INFORMATION: 5' PCR Primer
> 209 <400> SEQUENCE: 25
  210 gctgcaaggc cacatacgag caaggcgtcg
                                                                             30
  211 <210> SEQ ID NO: 26
  212 <211> LENGTH: 30
  213 <212> TYPE: DNA
  214 <213> ORGANISM: Artificial Sequence
>/215 <220> FEATURE:
  216 <223> OTHER INFORMATION: 5' PCR Primer
> 217 <400> SEQUENCE: 26
  218 aaaatgaaag aaaaaggaga tattcctgag
                                                                             30
  219 <210> SEQ ID NO: 27
  220 <211> LENGTH: 30
  221 <212> TYPE: DNA
  222 <213> ORGANISM: Artificial Sequence
A> 223 <220> FEATURE:
  224 <223> OTHER INFORMATION: 5' PCR Primer
 > 225 <400> SEQUENCE: 27
  226 ctgaggccac atatgagagt ggatttgtca
                                                                             30
  227 <210> SEQ ID NO: 28
  228 <211> LENGTH: 30
  229 <212> TYPE: DNA
  2,30 <213> ORGANISM: Artificial Sequence
  /231 <220> FEATURE:
  232 <223> OTHER INFORMATION: 5' PCR Primer
> 233 <400> SEQUENCE: 28
                                                                             30
  234 cagagaaaca aaggaaactt ccctggtcga
  235 <210> SEQ ID NO: 29
  236 <211> LENGTH: 30
  237 <212> TYPE: DNA
  238 <213> ORGANISM: Artificial Sequence
  239 <220> FEATURE:
  240 <223> OTHER INFORMATION: 5' PCR Primer
```

<210> 47
<211> 30
<212> DNA
<213> Antisense 5' PCR primer
<400> 47

ctcgggtggg aacacgtttt tcaggtcctc

30

VERIFICATION SUMMARY PATENT APPLICATION: US/09/424,091A TIME: 04/29/2002 TIME: 09:49:58

Input Set: A:\#318788 v1 - 350013-66 Sequence Listing(ASCII).txt
Output Set: N:\CRF3\04292002\I424091A.raw

```
L:3 M:283 W: Missing Blank Line separator, <120> field identifier
L:4 M:283 W: Missing Blank Line separator, <130> field identifier
L:5 M:283 W: Missing Blank Line separator, <140> field identifier
L:6 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:8 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:9 M:283 W: Missing Blank Line separator, <160> field identifier
L:11 M:283 W: Missing Blank Line separator, <210> field identifier
L:15 M:283 W: Missing Blank Line separator, <220> field identifier
L:17 M:283 W: Missing Blank Line separator, <400> field identifier
L:23 M:283 W: Missing Blank Line separator, <220> field identifier
L:25 M:283 W: Missing Blank Line separator, <400> field identifier
L:31 M:283 W: Missing Blank Line separator, <220> field identifier
L:33 M:283 W: Missing Blank Line separator, <400> field identifier
L:39 M:283 W: Missing Blank Line separator, <220> field identifier
L:41 M:283 W: Missing Blank Line separator, <400> field identifier
L:47 M:283 W: Missing Blank Line separator, <220> field identifier
L:49 M:283 W: Missing Blank Line separator, <400> field identifier
L:55 M:283 W: Missing Blank Line separator, <220> field identifier
L:57 M:283 W: Missing Blank Line separator, <400> field identifier
L:63 M:283 W: Missing Blank Line separator, <220> field identifier
L:65 M:283 W: Missing Blank Line separator, <400> field identifier
L:71 M:283 W: Missing Blank Line separator, <220> field identifier
L:73 M:283 W: Missing Blank Line separator, <400> field identifier
L:79 M:283 W: Missing Blank Line separator, <220> field identifier
L:81 M:283 W: Missing Blank Line separator, <400> field identifier
L:87 M:283 W: Missing Blank Line separator, <220> field identifier
L:89 M:283 W: Missing Blank Line separator, <400> field identifier
L:95 M:283 W: Missing Blank Line separator, <220> field identifier
L:97 M:283 W: Missing Blank Line separator, <400> field identifier
L:103 M:283 W: Missing Blank Line separator, <220> field identifier L:105 M:283 W: Missing Blank Line separator, <400> field identifier
L:111 M:283 W: Missing Blank Line separator, <220> field identifier
L:113 M:283 W: Missing Blank Line separator, <400> field identifier
L:119 M:283 W: Missing Blank Line separator, <220> field identifier
L:121 M:283 W: Missing Blank Line separator, <400> field identifier
L:127 M:283 W: Missing Blank Line separator, <220> field identifier
L:129 M:283 W: Missing Blank Line separator, <400> field identifier
L:135 M:283 W: Missing Blank Line separator, <220> field identifier
L:137 M:283 W: Missing Blank Line separator, <400> field identifier
L:143 M:283 W: Missing Blank Line separator, <220> field identifier
L:145 M:283 W: Missing Blank Line separator, <400> field identifier
L:151 M:283 W: Missing Blank Line separator, <220> field identifier
L:153 M:283 W: Missing Blank Line separator, <400> field identifier
L:159 M:283 W: Missing Blank Line separator, <220> field identifier
L:161 M:283 W: Missing Blank Line separator, <400> field identifier
L:167 M:283 W: Missing Blank Line separator, <220> field identifier
L:169 M:283 W: Missing Blank Line separator, <400> field identifier
L:175 M:283 W: Missing Blank Line separator, <220> field identifier
```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/424,091A

DATE: 04/29/2002 TIME: 09:49:58

Input Set : A:\#318788 v1 - 350013-66 Sequence Listing(ASCII).txt

Output Set: N:\CRF3\04292002\I424091A.raw

L:177 M:283 W: Missing Blank Line separator, <400> field identifier L:183 M:283 W: Missing Blank Line separator, <220> field identifier L:185 M:283 W: Missing Blank Line separator, <400> field identifier L:191 M:283 W: Missing Blank Line separator, <220> field identifier